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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

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APPLICANT:  
Penner et al.

FILING DATE:  
October 12, 2001

GROUP:

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Ad	AA*	L. Escapa and N. Garcia, "Is the Observed Quantized Conductance On Small Contacts Due to Coherent Ballistic Transport", App. Phys. Lett. 56 (1990) 901-903.
	AB*	J. L. Costa Kramer, N. Garcia and H. Olin, "Conductance quantization in bismuth nanowires at 4 K", Phys. Rev. Lett. 78 (1997) 4990-4993.
	AC*	Z. B. Zhang, X. Z. Sun, M. S. Dresselhaus, J. Y. Ying and J. Heremans, "Electronic transport properties of single-crystal bismuth nanowire arrays", Phys. Rev. B 61 (2000) 4850-4861.
	AD*	Z. B. Zhang, X. Z. Sun, M. S. Dresselhaus, J. Y. Ying and J. P. Heremans, "Magnetotransport investigations of ultrafine single-crystalline bismuth nanowire arrays", App. Phys. Lett. 73 (1998) 1589-1591.
	AE*	J. I. Pascual, J. Mendez, J. Gomezherrero, A. M. Baro, N. Garcia and V. T. Binh, "Quantum Contact in Gold Nanostructures By Scanning Tunneling Microscopy", Phys. Rev. Lett. 71 (1993) 1852-1855.
	AF*	J. I. Pascual, J. Mendez, J. Gomezherrero, A. M. Baro, N. Garcia, U. Landman, W. D. Leudtke, E. N. Bogachek and H. P. Cheng, "Electrical and Mechanical Properties of Metallic Nanowires - Conductance Quantization and Localization", J. Vac. Sci. Technol. B 13 (1995) 1280-1284.
	AG*	J. Heremans, C. M. Thrush, Z. Zhang, X. Sun, M. S. Dresselhaus, J. Y. Ying and D. T. Morelli, "Magnetoresistance of bismuth nanowire arrays: A possible transition from one-dimensional to three-dimensional localization", Phys. Rev. B 58 (1998) 10091-10095.
	AH*	E. N. Bogachek, A. G. Scherbakov and U. Landman, "Magnetic Switching and Thermal Enhancement of Quantum Transport Through Nanowires", Phys. Rev. B 53 (1996) 13246-1 3249.
	AI*	E. N. Bogachek, A. G. Scherbakov and U. Landman, "Nonlinear magnetoconductance of nanowires", Phys. Rev. B 56 (1997) 14917-14920.
	AJ*	K. Liu, C. L. Chien, P. C. Searson and Y. Z. Kui, "Structural and magneto-transport properties of electrodeposited bismuth nanowires", App. Phys. Lett. 73 (1998) 1436-1438.
	AK*	K. Liu, K. Nagodawithana, P. C. Searson and C. L. Chien, "Perpendicular Giant Magnetoresistance of Multilayered Co/Cu Nanowires", Phys. Rev. B 51 (1995) 7381-7384.
	AL*	K. Liu, C. L. Chien and P. C. Searson, "Finite-size effects in bismuth nanowires", Phys. Rev. B 58 (1998) R14681-R14684.
	AM*	U. Landman, W. D. Luedtke, B. E. Salisbury and R. L. Whetten, "Reversible Manipulations of Room Temperature Mechanical and Quantum Transport Properties in Nanowire Junctions", Phys. Rev. Lett. 77 (1996) 1362-1 365.
	AN*	C. Yannouleas and U. Landman, "On mesoscopic forces and quantized conductance in model metallic nanowires", J. Phys. Chem. B 101 (1997) 5780-5783.
	AO*	H. Ikeda, Y. Qi, T. Cagin, K. Samwer, W. L. Johnson and W. A. Goddard, "Strain rate induced amorphization in metallic nanowires", Phys. Rev. Lett. 82 (1999) 2900-2903.
	AP*	Blom, H. Olin, J. L. Costa Kramer, N. Garcia, M. Jonson, P. A. Serena and R. I. Shekhter, "Free-electron model for mesoscopic force fluctuations in nanowires", Phys. Rev. B 57 (1998) 8830-8833.
	AQ*	H. Hakkinen, R. N. Barnett and U. Langman, "Gold Nanowire and Their Chemical Modifications", J. Phys. Chem. B 103 (1999) 8814.
	AR*	C. Z. Li, H. X. He, A. Bogoz, J. S. Bunch and N. J. Tao, "Molecular Detection based on Conductance Quantization of Nanowires.", App. Phys. Lett. 76 (2000) 1333.
	AS*	M. P. Zach, K. Ng and R. M. Penner, "Molybdenum Nanowires by Electrodeposition", Science 290 (2000) 2120.
	AT*	D. Y. Petrovykh, F. J. Himpsel and T. Jung, "Width distribution of nanowires grown by step decoration", Surf. Sci. 407 (1998) 189-1 99.
Ad	AU*	S. Morin, A. Lachenwitzer, O. M. Magnussen and R. J. Behm, "Potential-controlled step flow to 3D step decoration transition: Ni electrodeposition on Ag (1 11)", Phys. Rev. Lett. 83 (1999) 5066-5069.

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AV *	E. A. Abd El Meguid, P. Berenz and H. Baltruschat, "Step decoration at Pt single crystal electrodes: role of the anion", J. Electroanal. Chem. 467 (1999) 50-59.
AW *	J. Dekoster, B. Degroote, H. Pattyn, G. Langouche, A. Vantomme and S. Degroote, "Step decoration during deposition of Co on Ag(001) by ultralow energy ion beams", App. Phys. Lett. 75 (1999) 938-940.
AX *	R. K. Kawakami, M. O. Bowen, H. J. Choi, E. J. Escorcia-Aparicio and Z. Q. Qiu, "Step-induced magnetic anisotropy in Co stepped Cu(001) as a function of step density and Cu step decoration", J. Appl. Phys. 85 (1999) 4955-4957.
AY *	M. Blanc, K. Kuhnke, V. Marsico and K. Kern, "Probing step decoration by grazing-incidence helium scattering", Surf. Sci. 414 (1998) L964-L969.
AZ *	P. Gambardella, M. Blanc, H. Brune, K. Kuhnke and K. Kern, "One-dimensional metal chains on Pt vicinal surfaces", Phys. Rev. B 61 (2000) 2254-2262.
BA *	A. Dallmeyer, C. Carbone, W. Eberhardt, C. Pampuch, O. Rader, W. Gudat, P. Gambardella and K. Kern, "Electronic states and magnetism of monatomic Co and Cu wires", Phys. Rev. B 61 (2000) R5133-R5136.
BB *	E. Braun, Y. Eichen, U. Sivan and G. BenYoseph, "DNA-templated assembly and electrode attachment of a conducting silver wire", Nature 391 (1998) 775-778.
BC *	Y. Eichen, E. Braun, U. Sivan and G. BenYoseph, "Self-assembly of nanoelectronic components and circuits using biological templates", Acta Polymerica 49 (1998) 663-670.
BD *	G. Fasol and K. Runge, "Selective electrodeposition of nanometer scale magnetic wires", App. Phys. Lett. 70 (1997) 2467-2468.
BE *	C. W. Zhou, J. Kong and H. J. Dai, "Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters", App. Phys. Lett. 76 (2000) 1597-1599.
BF *	A. A. Setlur, J. M. Lauerhaus, J.-Y. Dai and R. P. H. Chang, "A Method for Synthesizing Large Quantities of Carbon Nanotubes and Encapsulated copper nanowires", APL 69 (1996) 345.
BG *	W. K. Hsu, S. Trasobares, H. Terrones, M. Terrones, N. Grobert, Y. Q. Zhu, W. Z. Li, R. Escudero, J. P. Hare, H. W. Kroto and D. R. M. Walton, "Electrolytic formation of carbon-sheathed mixed Sn-Pb nanowires", Chem. Mat. 11 (1999) 1747-1751.
BH *	W. K. Hsu, J. Li, H. Terrones, M. Terrones, N. Grobert, Y. Q. Zhu, S. Trasobares, J. P. Hare, C. J. Pickett, H. W. Kroto and D. R. M. Walton, "Electrochemical production of low-melting metal nanowires", Chem. Phys. Lett. 301 (1999) 159-166.
BI *	W. K. Hsu, M. Terrones, H. Terrones, N. Grobert, A. I. Kirkland, J. P. Hare, K. Prassides, P. D. Townsend, H. W. Kroto and D. R. M. Walton, "Electrochemical formation of novel nanowires and their dynamic effects", Chem. Phys. Lett. 284 (1998) 177-183.
BJ *	M. Terrones, W. K. Hsu, A. Schilder, H. Terrones, N. Grobert, J. P. Hare, Y. Q. Zhu, M. Schwoerer, K. Prassides, H. W. Kroto and D. R. M. Walton, "Novel nanotubes and encapsulated nanowires", Appl. Phys. A 66 (1998) 307-317.
BK *	N. Demoncy, O. Stephan, N. Brun, C. Colliex, A. Loiseau and H. Pascard, "Filling carbon nanotubes with metals by the arc-discharge method: the key role of sulfur", European Physical Journal B 4 (1998) 147-157.
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BM *	T. Bjornholm, T. Hassenkam, D. R. Greve, R. D. McCullough, M. Jayaraman, S. M. Savoy, C. E. Jones and J. T. McDevitt, "Polythiophene nanowires", Adv. Mat. 11 (1999) 1218-1221.
BN *	D. A. Tulchinsky, M. H. Kelley, J. J. McClelland, R. Gupta and R. J. Celotta, "Fabrication and domain imaging of iron magnetic nanowire arrays", Journal of Vacuum Science & Technology a-Vacuum Surfaces and Films 16 (1998) 1817-1819
BO *	W. R. Anderson, C. C. Bradley, J. J. McClelland and R. J. Celotta, "Minimizing feature width in atom optically fabricated chromium nanostructures", Physical Review A 59 (1999) 2476-2485.

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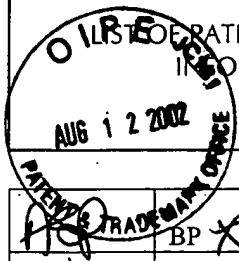
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BP *	R. J. Celotta, R. Gupta, R. E. Scholten and J. J. McClelland, "Nanostructure Fabrication Via Laser-Focused Atomic Deposition", J. Appl. Phys. 79 (1996) 6079-6083.
BQ *	E. Jurdik, T. Rasing, H. van Kempen, C. C. Bradley and J. J. McClelland, "Surface growth in laser-focused atomic deposition", Phys. Rev. B 60 (1999) 1543-1546.
BR *	N. Agrait, G. Rubio and S. Vieira, "Plastic Deformation of Nanometer-Scale Gold Connective Necks", Phys. Rev. Lett. 74 (1995) 3995-3998.
BS *	G. Rubio, N. Agrait and S. Vieira, "Atomic-Sized Metallic Contacts - Mechanical Properties and Electronic Transport", Phys. Rev. Lett. 76 (1996) 2302-2305.
BT *	J. Jorritsma, M. A. M. Gijs, J. M. Kerkhof and J. G. H. Stienen, "General Technique For Fabricating Large Arrays of Nanowires", Nanotechnology 7 (1996) 263-265
BU *	J. Jorritsma, M. A. M. Gijs, C. Schonenberger and J. G. H. Stienen, "Fabrication of Large Arrays of Metallic Nanowires On V-Grooved Substrates", App. Phys. Lett. 67 (1995) 1489-1491
BV *	S. A. Sapp, D. T. Mitchell and C. R. Martin, "Using template-synthesized micro and nanowires as building blocks for self-assembly of supramolecular architectures", Chem. Mat. 11 (1999) 1183-1185, 1185A.
BW *	C. R. Martin, D. J. Dermody, B. D. Reiss, M. M. Fang, L. A. Lyon, M. J. Natan and T. E. Mallouk, "Orthogonal self-assembly on colloidal gold-platinum nanorods", Adv. Mat. 11 (1999) 1021-1025.
BX *	B. A. Korgel and D. Fitzmaurice, "Self-assembly of silver nanocrystals into two-dimensional nanowire arrays", Adv. Mat. 10 (1998) 661-665.
BY *	L. C. Brousseau, J. P. Novak, S. M. Marinakos and D. L. Feldheim, "Assembly of phenylacetylene-bridged gold nanocluster dimers and trimers", Adv. Mat. 11 (1999) 447-449, 427.
BZ *	Y. Zhou, S. H. Yu, X. P. Cui, C. Y. Wang and Z. Y. Chen, "Formation of Silver Nanowires by a Novel Solid-Liquid Phase Arc Discharge Method", Chem. Mat. 11 (1999) 545.
CA *	G. L. G. L. Hornyak, C. J. Patrissi and C. R. Martin, "Finite sized oblate and orthoprolate metal nanoparticles: Optical theory and potential as surface enhanced Raman spectroscopic substrates", Nanostructured Materials 9 (1997) 705-708.
CB *	D. N. Davydov, J. Haruyama, D. Routkevitch, B. W. Statt, D. Ellis, M. Moskovits and J. M. Xu, "Nonlithographic nanowire-array tunnel device: Fabrication, zero-bias anomalies, and Coulomb blockade", Phys. Rev. B 57 (1998) 13550-1 3553.
CC *	J. Muster, G. T. Kim, V. Krstic, J. G. Park, Y. W. Park, S. Roth and M. Burghard, "Electrical transport through individual vanadium pentoxide nanowires", Adv. Mat. 12 (2000) 420-424, 398.
CD *	G. T. Kim, J. Muster, V. Krstic, J. G. Park, Y. W. Park, S. Roth and M. Burghard, "Field-effect transistor made of individual V2O5 nanofibers", App. Phys. Lett. 76 (2000) 1875-1 877.
CE *	T. Jung, Y. W. Mo and F. J. Himpsel, "Identification of Metals in Scanning Tunneling Microscopy Via Image States", Phys. Rev. Lett. 74 (1995) 1641 -1 644.
CF *	J. Fransaer and R. M. Penner, "Brown Dynamics Simulations of the Growth of metal Nanocrystal Ensembles on Electrodes Surfaces From Solution. I. Instantaneous Nucleation and Diffusion-Controlled Growth", J. Phys. Chem. B 103 (1999) 7643.
CG *	K. Ng, H. Liu and R. M. Penner, Langmuir 16 (2000) 4016.
CH *	C. Durkan and M. E. Welland, "Size effects in the electrical resistivity of polycrystalline nanowires", Phys. Rev. B 61 (2000) 14215-14218.
CI *	Brumlik et al., "Template synthesis of metal microtube ensembles utilizing chemical, electrochemical, and vacuum deposition techniques", J. Mater. Res., Vol. 9, No. 5 (1996) 1174
CJ *	Preston et al., "Optical Characterization of Anodic Aluminum Oxide Films Containing Electrochemically Deposited Metal Particles", J. Phys. Chem. 97 (1993) 8495-8503

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CK *	Routkevitch et al., "Electrochemical Fabrication of CdS Nanowire Arrays in Porous Anodic Aluminum Oxide", J. Phys. Chem. 100 (1996) 14037-14047
CL *	Sun et al., "Finite-size effects in nickel nanowire arrays", Phys. Rev. B, Vol. 61, No. 10 (2000) R6464-R6466
CM *	P.C. Searson et al., "Electrochemical processing of metallic nanowire arrays and nanocomposites", J. Elec. Mater., Vol. 24, No. 8 (1995) 955-960
CN *	L. Sun et al., "Electrochemical deposition of nickel nanowire arrays in single-crystal mica films", Appl. Phys. Ltrs., Vol. 74, No. 19 (1999) 2803-2805
CO *	Zach et al., "Nanocrystalline nickel nanoparticles", Adv. Mater., Vol. 12, No. 12 (2000) 878-883
CP *	Zoval et al., "Electrochemical preparation of platinum nanocrystallites with size selectivity on basal plane oriented graphite surfaces", J. Phys. Chem. B 102 (1998) 1166-1175
CQ	Himpel et al., "Nanowires by step decoration", MRS Bulletin (8/1999) 20-24
CR *	Noll et al., "Template electropolymerization of polypyrrole nanostructures on highly ordered pyrolytic graphite step and pit defects", J. Electrochem. Soc., Vol. 145, No. 10 (1998) 3320-3328
CS *	Martin, "Template synthesis of polymeric and metal microtubules", Adv. Mater. 3, No. 9 (1999) 457-459
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CU *	C. A. Foss, M. J. Tierney and C. R. Martin, "Template Synthesis of Infrared-Transparent Metal Microcylinders: Comparison of Optical Properties With the Predictions of Effective Medium Theory", J. Phys. Chem. 96 (1992) 9001-9007.
CV *	C. J. Brumlik, V. P. Menon and C. R. Martin, "Template Synthesis of Metal Microtubule Ensembles Utilizing Chemical, Electrochemical, and Vacuum Deposition Techniques", J. Mat. Res. 9 (1994) 1174
CW *	D. Routkevitch, T. Bigioni, M. Moskovits and J. M. Xu, "Electrochemical Fabrication of Cds Nanowire Arrays in Porous Anodic Aluminum Oxide Templates", J. Phys. Chem. 100 (1996) 14037-14047.
CX *	F. J. Himpel, T. Jung and J. E. Ortega, "Nanowires on stepped metal surfaces", Surface Review and Letters 4 (1997) 371-380.
CY *	S. Strbac et al., "Nanoscale pattern formation during electrodeposition: Ru on reconstructed Au(111)", Phy. Rev. Ltrs., Vol. 83, No. 16 (1999) 3246-3249
CZ *	J. I. Pascual, J. Mendez, J. Gomezherrero, A. M. Baro, N. Garcia, U. Landman, W. D. Luedtke, E. N. Bogachek and H. P. Cheng, "Properties of Metallic Nanowires -From Conductance Quantization to Localization", Science 267 (1995) 1793-1 795.
DA *	H. J. Dai, "Probing Electrical Transport in Nanomaterials - Conductivity of Individual Carbon Nanotubes (Vol 272, Pg 523, 1996)", Science 272 (1996) 1861-1861.
DB *	M. Terrones, N. Grobert, W. K. Hsu, Y. Q. Zhu, W. B. Hu, H. Terrones, J. P. Hare, H. W. Kroto and D. R. M. Walton, "Advances in the creation of filled nanotubes and novel nanowires", MRS Bulletin 24 (1999) 43-49.
DC *	C. Guerretpiecourt, Y. Lebouar, A. Loiseau and H. Pascard, "Relation Between Metal Electronic Structure and Morphology of Metal Compounds Inside Carbon Nanotubes", Nature 372 (1994) 761-765.
DD *	A. Loiseau and H. Pascard, "Synthesis of Long Carbon Nanotubes Filled With Se, S, Sb and Ge By the Arc Method", Chem. Phys. Lett. 256 (1996) 246-252.
DE *	B. K. Pradhan, T. Kyotani and A. Tomita, "Nickel nanowires of 4 nm diameter in the cavity of carbon nanotubes", Chem. Comm. (1999) 1317-1318.
DF *	J. Sloan, D. M. Wright, H. G. Woo, S. Bailey, G. Brown, A. P. E. York, K. S. Coleman, J. L. Hutchison and M. L. H. Green, "Capillarity and silver nanowire formation observed in single walled carbon nanotubes", Chem. Comm. (1999) 699-700.

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DG *	R. E. Scholten, J. J. McClelland, E. C. Palm, A. Gavrin and R. J. Celotta, "Nanostructure Fabrication Via Direct Writing With Atoms Focused in Laser Fields", J. Vac. Sci. Technol. B 12 (1994) 1847-1 850.
DH *	R. Gupta, J. J. McClelland, Z. J. Jabbour and R. J. Celotta, "Nanofabrication of a Two-Dimensional Array Using Laser-Focused Atomic Deposition", App. Phys. Lett. 67 (1995) 1378-1380.
DI *	J. M. Krans, J. M. Vanruijtenbeek, V. V. Fisun, I. K. Yanson and L. J. Dejongh, "The Signature of Conductance Quantization in Metallic Point Contacts", Nature 375 (1995) 767-769.
DJ *	C. J. Muller, J. M. Krans, T. N. Todorov and M. A. Reed, "Quantization Effects in the Conductance of Metallic Contacts At Room Temperature", Phys. Rev. B 53 (1996) 1022-1025.
DK *	J. M. Krans, C. J. Muller, I. K. Yanson, T. C. M. Govaert, R. Hesper and J. M. Vanruijtenbeek, "One-Atom Point Contacts", Phys. Rev. B 48 (1993) 14721-14724.
DL *	J. A. Torres, J. I. Pascual and J. J. Saenz, "Theory of Conduction Through Narrow Constrictions in a 3-Dimensional Electron Gas", Phys. Rev. B 49 (1994) 16581-16584.
DM *	C. J. Brumlik and C. R. Martin, "Template Synthesis of Metal Microtubules", J. Am. Chem. Soc. 113 (1991) 3174-3175.
DN *	J. Clavilier, J. M. Feliu and A. Aldaz, J. Electroanal. Chem. 243 (1988) 419-433
DO *	M. Aktary, C. E. Lee, Y. Xing, S. H. Bergens and M. T. McDermott, "Surface-directed deposition of platinum nanostructures on graphite by chemical vapor deposition", Langmuir 16 (2000) 5837-5840.
DP *	S. J. Tans, M. H. Devoret, H. J. Dai, A. Thess, R. E. Smalley, L. J. Geerligs and C. Dekker, "Individual single-wall carbon nanotubes as quantum wires", Nature 386 (1997) 474-477.
DQ *	E. H. Sondheimer, Adv. Phys. 1, No. 1 (1952) 1-42
DR *	A. F. Mayadas, M. Shatzkes and M. Janak, Appl. Phys. Lett. 14 (1969) 345.
DS *	A. F. Mayadas and M. Shatzkes, Phys. Rev. B 1 (1970) 1382.
DT *	M. Terrones, W. K. Hsu, A. Schilder, H. Terrones, N. Grobert, J. P. Hare, Y. Q. Zhu, M. Schwoerer, K. Prassides, H. W. Kroto and D. R. M. Walton, "Novel nanotubes and encapsulated nanowires", Appl. Phys. A 66 (1998) 307-317.
DU *	R. J. Nichols, D. M. Kolb and R. J. Behm, "STM Observations of the Initial Stages of Copper Deposition on Gold Single Crystal Electrodes", J. Electroanal. Chem. 313 (1991) 109.
DW *	T. Jung, R. Schlittler, J. K. Gimzewski and F. J. Himpsel, "One-Dimensional Metal Structures At Decorated Steps", Appl. Phys. A 61 (1995) 467-474.
DW *	Y. W. Mo and F. J. Himpsel, "Spectroscopic signature of Cu on W(1 10) From Scanning...", Phys. Rev. B 50 (1994) 7868.
DX *	K. Fuchs et al., "The Conductivity of Thin Metallic Films According to the Electron Theory of Metals", Proc. Cambridge Philos. Soc. 34 (1938) 100-108.
DY *	Blanc et al., "Probing step decoration by grazing-incidence helium scattering", Surf. Sci. 414 (1998) L964-L969.
DZ *	Gambardella et al., "One-dimensional metal chains on Pt vicinal surfaces", Phys. Rev. B 61, No. 3 (2000) 2254-2262.
EA *	Dallmeyer et al., "Electronic states and magnetism of monatomic Co and Cu wires", Phys. Rev. B 61, No. 8 (2000) R5133-R5136.
EB *	Sharp et al., "Using template-synthesized micro-and nanowires as building blocks for self-assembly of supramolecular architectures", Chem. Mat. 11, No. 5 (1999) 1183-1185.
EC *	Hornyak et al., "Finite sized oblate and ortho-prolate metal nanoparticles: optical theory and potential as surface enhanced reman spectroscopic substrates", Nanostructured Materials, Vol. 9 (1997) 705-708.

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ED *	Brumlik and Martin, "Template synthesis of metal microtubules", J. Am. Chem. Soc. 113 (1991) 3174-3175.
EE *	Penner, R.M., "Hybrid electrochemical/chemical synthesis of quantum dots", Acc. Chem. Res. 33 (2000) 78-86.
EF *	Whitney et al., "Fabrication and magnetic properties of arrays of metallic nanowires", Science 261 (1993) 1316-1319.
EG *	Bard, A.J., et al., "Electrochemical Methods, Fundamentals and Applications," 2 <sup>nd</sup> Ed., Wiley, New York, 2001 (ISBN0-471-04372-9) 35-48
EH *	Vieu et al., "Electron beam lithography: resolution limits and applications", Appl. Surf. Science 164 (2000) 111-117

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